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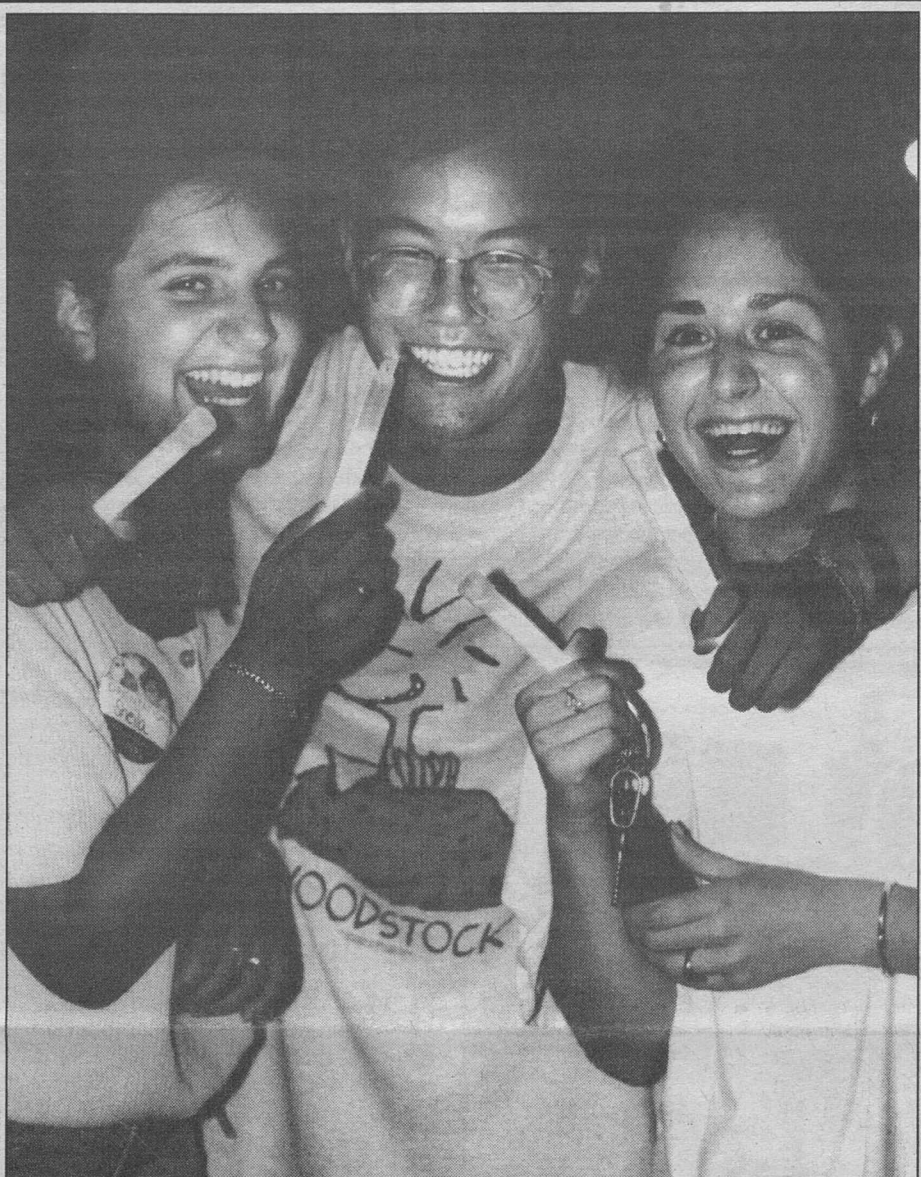
Washington University Record, August 24, 1995

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At the first gathering of the Class of 1999, Chancellor Mark S. Wrighton, Ph.D., welcomed the students and declared his hope that the knowledge they receive at Washington University will light their path through life. After his talk, all the lights in Graham Chapel were turned off as 20 resident assistants passed out lightsticks, novelty items that glow in the dark. Pictured above (from left) are Sheila Gordon of Hillsdale, N.J., Daniel Hwang of Morton Grove, Ill., and Cheryl Spinner of East Brunswick, N.J., showing off their new lightsticks.

A war zone

Study finds inner-city teens influenced by real-life violence

While politicians argue whether make-believe violence in movies and television is harming children, a Washington University study has found that a bigger behavioral influence may be the real-life violence that many inner-city teens face daily in their homes, schools and neighborhoods.

"Violent teens live in a war zone and behave that way," said Arlene Stiffman,



Arlene Stiffman

Ph.D., an associate professor at the George Warren Brown School of Social Work. "Our study demonstrates a direct link between teenagers' exposure to violence and their own violent behaviors. The more violence that the youths had been exposed to, the more likely they were to be violent themselves, to misuse drugs and alcohol and to lose hope for the future."

Stiffman and a team of researchers at the school's Center for Mental Health Services Research surveyed 797 youths ages 14 to 17 from four St. Louis City arenas that provide youth services: high schools, public health clinics, child welfare agencies and the juvenile justice system.

Teens participating in the study, which was funded by the National Institute of Mental Health (NIMH), reported extremely high rates of exposure to violence:

- 75 percent had heard or seen a shooting.
- 50 percent had seen a killing or serious beating.
- 50 percent reported that murders occur in their neighborhood.
- 39 percent had had a friend beaten or killed.
- 25 percent reported that teachers at their school had been injured by students.
- Only 8 percent reported no exposure to violence.

Many of the same teens who reported violence in their neighborhoods also reported that they themselves had engaged in various violent behaviors:

- 50 percent had been in a serious physical fight.
- 33 percent had used a weapon in a fight.
- 25 percent had been physically cruel to someone.
- 10 percent had been arrested/jailed for violent behavior.
- Only 33 percent said they had not engaged in any violent behavior.

The study has important policy implications, said Stiffman, because it demonstrates a clear link between teenage exposure to violence and the likelihood that a

Continued on page 6

Nine professors appointed arts and sciences chairs

Nine professors have been appointed new chairs of departments, committees and programs within the College of Arts and Sciences.

Henry Berger, Ph.D., associate professor of history, is acting chair of the Jewish and Near Eastern Studies Program for the 1995-96 academic year. Berger is filling in for Marc Saperstein, Ph.D., program chair and Gloria M. Goldstein Professor of Jewish History and Thought. Saperstein is on a one-year leave as a research fellow at the Center for Judaic Studies at the University of Pennsylvania.

Berger, a member of the faculty since 1970, received a doctoral degree in American history from the University of Wisconsin in 1966. He specializes in American foreign policy, with particular interest in U.S. relations with the Middle East and Latin America. He also co-teaches a seminar on American involvement in the Vietnam War.

Berger is no stranger to the Jewish and Near Eastern Studies Program, having chaired it from 1981-89. He also chairs the Undergraduate Studies Program in the Department of History. Berger noted that Saperstein's teaching niche will be filled during the spring semester by Visiting Professor Judith Doneson, Ph.D., who will teach a course on the Holocaust and a seminar on American Jewish history in film.

Lee Epstein, Ph.D., professor of political science, is the new chair of the Department of Political Science. A member of the faculty since 1991, Epstein takes the reins from John Sprague, Ph.D., professor of history, who chaired the department since 1992.

Epstein received three degrees from Emory University — a bachelor of arts in 1980, a master of arts in 1982 and a doctorate in 1983. She is the recipient of four National Science Foundation grants and has written extensively on the U.S. Supreme Court.

One of her most recent books, "The Supreme Court Compendium" (Congressional Quarterly Inc., 1994), received a

special recognition award from the Law and Courts Section of the American Political Science Association, an Outstanding Academic Book Award from Choice, a magazine for academic librarians, and a listing in Lingua Franca education magazine as a 1995 Best Research Tool.

Jack Clarence Knight Jr., Ph.D., will serve as acting chair of the Committee on Social Thought and Analysis. Knight, assistant professor of political science, replaces John Bowen, Ph.D., who is on sabbatical.

Knight received a bachelor's degree with a double major in English literature and religious studies from the University of North Carolina at Chapel Hill in 1974. Three years later he received a J.D. from the same university. Knight went on to receive master's and doctoral degrees from the University of Chicago in 1980 and 1989, respectively. He has taught at Washington University since 1988.

The Greensboro, N.C., native is interested in such areas as modern social and political theory; legal philosophy and jurisprudence; political economy; organizations and institutions; and philosophy of social science.

The topic of Knight's dissertation was "Institutions and Social Conflict: A Study in the Rationality of Social Institutions."

Marvin H. Marcus, Ph.D., associate professor of Japanese languages and literatures, is the new director of East Asian Studies and co-director of the Joint Center for East Asian Studies, a cooperative program with the University of Missouri-St. Louis. Marcus takes over from Joseph R. Allen, Ph.D., associate professor of Asian and Near Eastern languages, who will be on leave during the 1995-96 academic year.

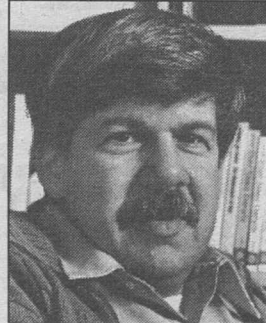
The East Asian Studies Program offers a broad interdisciplinary approach to the cultures and societies of East Asia, with a major emphasis on China and Japan and includes courses in language and literature, history, anthropology, economics,

Continued on page 5

Author to lecture, join in informal discussion

Scholar and award-winning author Stephen Jay Gould will open the fall Assembly Series at 11 a.m. Wednesday, Aug. 30, with a lecture titled "Evolution and Human Equality." The lecture will take place in Graham Chapel. An informal discussion with the author is scheduled at 2 p.m. in Lambert Lounge, Room 303 Mallinckrodt Center. Both the lecture and discussion are free and open to the public.

Gould has taught geology, biology and the history of science at Harvard University since 1967



Stephen Jay Gould

when he was appointed assistant professor of geology and assistant curator of invertebrate paleontology. He is now Alexander Agassiz Professor of Zoology, a position he has held since 1982, and professor of geology and curator of invertebrate paleontology at the Museum of Comparative Zoology.

Gould is an esteemed and prolific interpreter of evolutionary biological theory. His many books include the

highly acclaimed "The Mismeasure of Man," winner of the 1982 National Book Critics Circle Award for general nonfiction, "The Panda's Thumb," winner of the 1981 National Book Award for science, and "Wonderful Life: The Burgess Shale and the Nature of History," published in 1990 and a finalist for the 1991 Pulitzer Prize. His articles won him the 1980 National Magazine Award for essays and criticism and the Golden Trilobite Award

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A newly discovered protein leads scientists closer to understanding aneurysms, potentially deadly weaknesses in blood vessel walls

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The redesigned Campus Bookstore gets rave reviews from students, officials

Medical Update

Researchers find protein plays role in potentially fatal aneurysms

School of Medicine researchers have identified a protein they suspect plays a key role in weakening the abdomen's main artery, leaving the vessel prone to rupture. The finding may lead to ways to block the protein and prevent the development of potentially fatal abdominal aortic aneurysms.

An aneurysm is a ballooning of an artery that occurs when the artery wall becomes weakened and stretched. Abdominal aortic aneurysms develop in the abdominal portion of the body's largest artery, the aorta. They usually develop painlessly and can burst without warning, causing death within minutes.

In a recent issue of the *Journal of Clinical Investigation*, the researchers report that a protein that breaks down elastin, an artery-strengthening substance, is elevated in abdominal aneurysm tissue in patients. The finding suggests that the protein, an enzyme called 92-kilodalton (kD) gelatinase, is involved in the development of abdominal aortic aneurysms and may be necessary for their growth, said Robert Thompson, M.D., the lead author of the report and an assistant professor of surgery.

"The study gives us strong suggestive

evidence that the enzyme, 92-kD gelatinase, may cause the weakening in the arterial wall that leads to the growth of abdominal aortic aneurysms," Thompson said.

The enzyme also may play a role in the development of aneurysms in other major blood vessels, the researchers said.

In a preliminary follow-up study, Thompson and his co-workers have found that certain drugs prevent the development of abdominal aortic aneurysms in rats by blocking the production of 92-kD gelatinase. The researchers plan to test the drugs in patients who eventually will need surgery to repair an enlarging aneurysm.

About 15,000 Americans die each year from ruptured abdominal aortic aneurysms.

As aneurysms grow, their risk of rupture increases. If the vessel bursts, the overall mortality rate is 95 percent. Emergency surgery to repair a ruptured aortic aneurysm still carries a significant mortality rate — 50 to 70 percent.

The recommended treatment for aneurysms more than 2.5 inches in length is elective surgery, which has a mortality rate of less than 5 percent if the procedure is performed in a major medical center, Thompson said.

Patients most at risk for aneurysm disease are those over 65 with a history of cigarette smoking. Because most patients don't develop symptoms of an aneurysm until it is on the verge of rupturing, understanding how the disease develops may lead to treatments that can prevent small aneurysms from enlarging.

Symptoms of an abdominal aneurysm may include stomach or back pain, or a pulsating abdomen when the patient lies on his back.

Thompson and William Parks, Ph.D., an associate professor of medicine and cell biology, and their co-workers studied 92-kD gelatinase because it already was known to degrade elastin. Their earlier research and studies by other investigators also had suggested that the enzyme may play a role in the development of abdominal aortic aneurysms.

In the current study, the researchers took samples of abdominal aortic aneurysm tissue from patients undergoing surgery to repair the defect. They compared them with abdominal aortic tissue samples from normal patients and patients with atherosclerosis. The latter group was included to determine whether 92-kD gelatinase also is

elevated in atherosclerotic disease. Atherosclerosis — or clogging of the arteries — may be a predisposing factor for the development of aortic aneurysms.

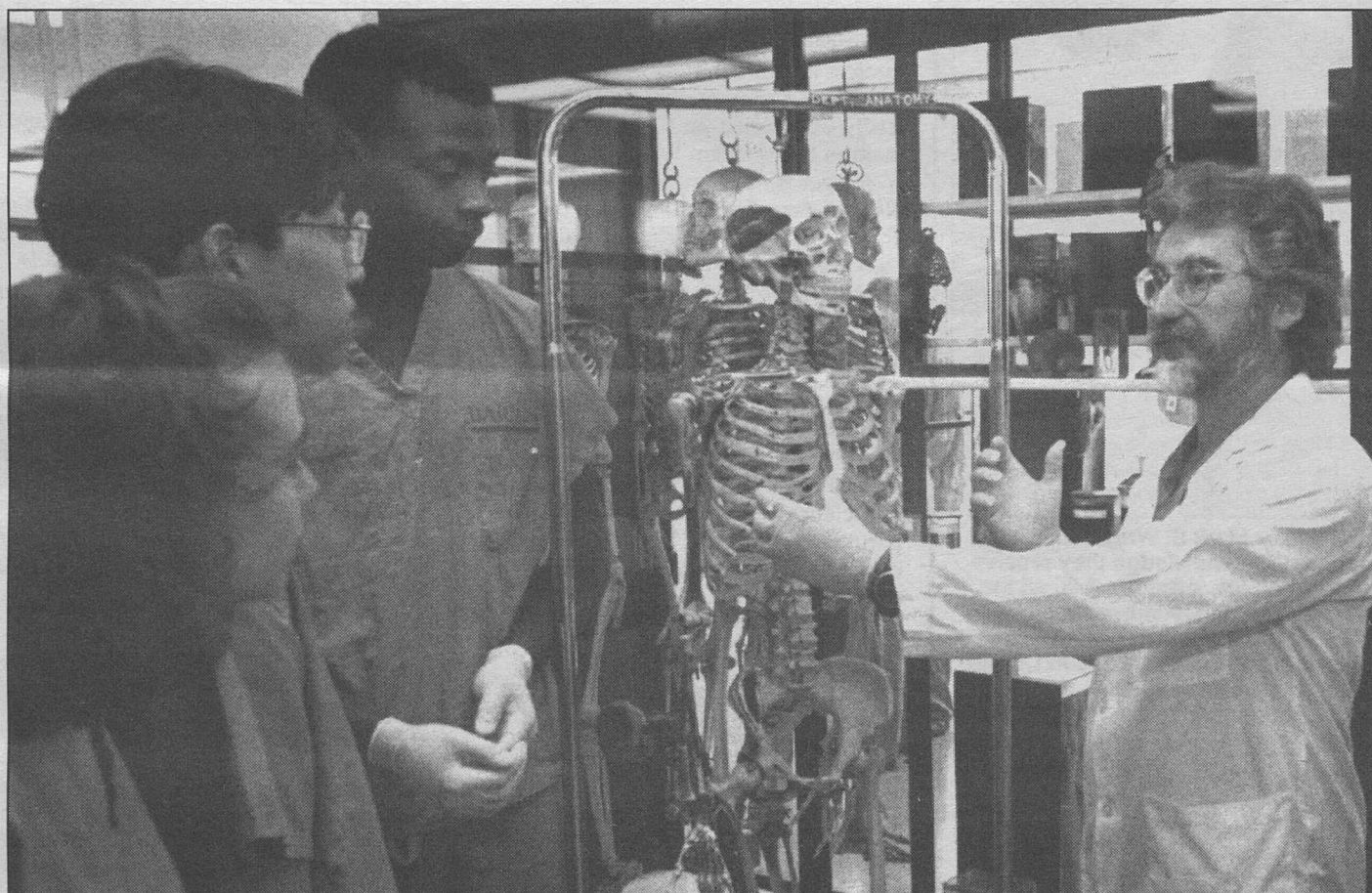
The researchers found 92-kD gelatinase in elevated levels in aneurysm tissue compared with aortic tissue from other patients. Levels of 92-kD gelatinase were two-fold higher in the aneurysm tissue compared with atherosclerotic tissue and 10-fold higher compared with the normal aortic tissue.

"This study raises our level of confidence that this enzyme is important in aneurysms, but probably not that necessary for the development of atherosclerosis," Thompson said.

When researchers looked for evidence of the enzyme under the microscope, they found no traces of it in normal tissue and only spotty presence of it in some of the atherosclerotic tissue samples. In all the aneurysm specimens, however, the enzyme was readily recognized.

The researchers also traced the secretion of 92-kD gelatinase to macrophages, inflammatory cells typically found in aortic aneurysm tissue. The macrophages also produce the messenger RNA that directs the production of the 92-kD gelatinase. Taken together, these results suggest that chronic macrophage production of 92-kD gelatinase significantly contributes to the breakdown of elastin in abdominal aortic aneurysms, Thompson said.

— Caroline Decker



On their first day of medical school, students (from left) Jennifer Quartarolo, Jon Oda and Ikenna Okereke discuss bone structure with Glenn Conroy, Ph.D., professor of anatomy and neurobiology, in human gross anatomy class. Courses started Aug. 14 for first- and second-year medical students.

Bernard Becker receives Keller prize and Weisenfeld award

Bernard Becker, M.D., professor and emeritus head of the Department of Ophthalmology and Visual Sciences, received two prestigious awards at the recent annual meeting of the Association for Research in Vision and Ophthalmology (ARVO).

Becker is the second recipient of the Helen Keller Prize for Vision Research, which was established in 1994. The prize recognizes "research excellence as demonstrated by highly significant contributions to vision science during the course of a career."

"I am honored to receive this prestigious award," Becker said. "Helen Keller's family and admirers have developed a remarkably effective foundation for the support of vision research. I am certain Helen Keller would be proud of the accomplishments of this foundation."

Prize recipients receive a specially designed medallion and a museum-quality print of Helen Keller by portrait photographer Yousuf Karsh. The prize also includes an unrestricted honorarium of \$30,000.

Becker is world-renowned for his research on glaucoma, one of the leading causes of blindness in Americans. One of his major contributions is the introduction

of the diuretic drug acetazolamide to treat the disease. His laboratory has contributed to the understanding of the biochemistry and physiology of glaucoma. In addition, he is the co-author of a classic text on glaucoma diagnosis and therapy.

In addition to the Helen Keller Prize, Becker was awarded the Mildred Weisenfeld Award for Excellence in Ophthalmology. ARVO established the award in 1986 to honor Mildred Weisenfeld, the organizer of the Fight for Sight Research Grant Program. She raised funds to support eye research for almost half a century. The

award is presented annually for "distinguished, scholarly contributions to the clinical practice of ophthalmology."

Becker headed the Department of Ophthalmology and Visual Sciences at the School of Medicine from 1953 to 1988. During that time, the department became internationally known for exceptional research and teaching. Becker trained more of the recent members of the American Board of Ophthalmology than any other person.

He was the first editor-in-chief of the *Journal of Investigative Ophthalmology*.

Cancer research grants now available

Applications now are being accepted for the Washington University Institutional Research Grant from the American Cancer Society. These applications, which are accepted twice a year, are due Sept. 15.

The purpose of the awards is to support a project for which other support is not available. The proposals must have some direct or indirect relevance to clinical or laboratory aspects of cancer.

Only instructors and assistant profes-

sors are eligible. Individuals who have previously received this award, and individuals who already have major National Institutes of Health, National Science Foundation, American Cancer Society or Veteran's Administration funding are discouraged from applying. Awards do not exceed \$15,000 for one year by the American Cancer Society, and funding renewals are not permitted.

For application forms and guidelines, call Kristi Bullock at 362-5210.

Participants needed for cancer study

The Division of Urologic Surgery, in cooperation with the National Cancer Institute, is seeking participants for a prostate, lung, colorectal and ovarian (PLCO) cancer study.

Researchers are looking for 60-to-74-year-olds who do not have cancer of the prostate, lung, colon, rectum or ovaries and who are not taking the drugs Proscar or Tamoxifen. Participants must be able to come in for free annual screening tests or provide health information.

The primary goal of the PLCO study is to learn whether screening tests are useful in detecting these cancers at an early stage, and if so, whether treatment saves or prolongs a person's life. For information, call 275-7526.

Record

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Royse guided surge of urban design projects

Over the last few years, St. Louis has experienced a burst of architectural activity downtown. From Metrolink to the new stadium, public architecture has been surging. What most people in the Washington University community may not realize is that much of the design activity was overseen by Donald Royse, Ph.D., professor of architecture.

From 1990-93, Royse was on leave from the School of Architecture to serve as the first director of urban design for the City of St. Louis.

As director of urban design, Royse played a major role in one of the most exciting chapters of St. Louis' development. He oversaw the design and construction of the new convention center, of Kiel auditorium, the stadium, Metrolink, and the design issues surrounding Mississippi River gambling boats.

In addition to these projects, Royse and his staff in the urban design department studied numerous other city issues, including the future of the loft district along Washington Avenue; the possibility of a multimodal transportation that would include a single location for Amtrak, Greyhound, Metrolink, city buses and a heliport; and the future design direction of downtown St. Louis. The downtown strategic plan included, for example, an investigation of what role professional sports play in the city's design.

All of these projects and buildings come under the rubric of urban design, which looks at the physical quality of a city, from a single building to an entire neighborhood or district. Urban designers are concerned with how design affects social interaction and how the layout of a city can affect the way it functions.

"Don inserted design as a key element in the early stages of planning rather than at the late, permit stage," said Larry Bushong, executive director of St. Louis Development Corporation. "He made sure design issues were a key focus in projects from the beginning."

Royse's academic training and demeanor served him well. He was able to explain complex topics clearly and patiently to both politicians and community groups. This became a very important aspect of Royse's role, said Christopher Grace, former executive director of St. Louis Development Corporation.

The urban design department was established by then-Mayor Vincent Schoemehl, in part, because of what he learned when he attended The National Mayors' Institute on City Design in 1990. The Mayors' Institute program, sponsored by the National Endowment for the Arts, was established in 1986 to help educate mayors about the importance of design to the future of their cities. After attending the institute, Schoemehl hired Grace and together they established the city's urban design department.

(Washington University's School of Architecture, was selected to host the Midwest Mayors' Institute for a three-year period beginning in 1993.)

"Don is very well-known in the community. He has a solid and impressive reputation as an academic and as an architect," said Grace. "He was very patient and would explain things over and over again. He made urban planning and design a more reasonable and understandable enterprise. He had a lot of fans."

Taking the lead in design issues

"With Don at the helm, the design department took the lead in planning and design issues," said Kathleen Brady, formerly chief of staff for St. Louis Development Corporation and now vice president for facilities management and civic affairs at St. Louis University. "He took on lots of tough projects, but he was very non-confrontational and has wonderful instincts for urban land use. The city was very fortunate to have him. Hiring Don was one of the most important things Chris Grace did," said Brady.

Royse noted that, while architects always engage in client negotiations, working for the city involved a far more complex political climate than anything he had ever encountered.

In spite of these difficulties, Royse received high marks from everyone who worked with him. "Don was universally viewed as a real gentleman," said Bushong. "He brought a calming force that really allowed productive discussion to take place."

Not only have the past several years been a time of change for the city's architecture, but for the School of Architecture as well. Royse came back from his three years with the city at the same time Cynthia Weese, FAIA, became dean of the school. At that time the school's faculty became heavily involved in a long-range strategic

plan in conjunction with the University-wide planning effort known as Project 21.

The plan required faculty to ask very simple yet very deep questions, such as "What is architecture, what is its future?" After the general questions were answered to everyone's satisfaction, the process came more directly to specifics, which required some prioritizing, said Royse.

"It is critical that everyone think ahead and plan ahead," said Royse of the school's current project.

"The strategic planning has been good; it's forced the entire faculty to talk together in ways we have not been asked to do before, with some long-lasting effects."

When he's not helping chart the future of the city, the School of Architecture, or the careers of his students,



Donald Royse, Ph.D., professor of architecture, discusses multimodal transportation with graduate students Georgia Petropoulos and Evan Bronstein.

"He made urban planning and design a more reasonable and understandable enterprise. He had a lot of fans."

— Christopher Grace

Royse designs single-family homes. Royse, who joined Washington University in 1968 to chair the school's Master's in Architecture and Urban Design program, has been a principal in a succession of small architectural firms for the last 20 years.

Designing single-family homes

He now is a principal of Royse-Eagleton, which he founded six years ago with former student Heidi Eagleton. Eagleton, a former lawyer who graduated from the School of Architecture in 1981, had decided she wanted to be in a two-person firm. "Don was my first choice for partner," Eagleton said of the day she broached the subject with him over dinner at Bar Italia, a Central West End restaurant. "We share design sensibilities, particularly our concern for the site, the building fitting in, clients' needs, importance of handpicking the materials."

The two are just completing a house in St. Louis County. Situated along a tree line, so one side of the house faces open fields and the other is in the woods, the two architects have used a tree motif inside the house, as well. For example, by using wooden poles to resemble tree trunks and beams to resemble tree branches, the second-floor bedrooms and bathroom appear to be nestled in the branches of trees, almost like a treehouse.

Although he has had many clients over the years, perhaps Royse's most unusual client was the Shah of Iran, for whom he was to plan a new town near Isfahan. Unfortunately, he only got as far as a schematic plan when the shah was deposed and Royse's project was abandoned.

As a youngster growing up on a Kirksville, Mo., farm, Royse spent his summer vacations in Chicago. When Royse was in high school he happened to meet an architect in a Chicago restaurant. They had several conversations about what architects do and Royse, who had enjoyed drawing buildings all his life, remembers thinking, "Hey this sounds just about right."

After high school and two years in the U.S. Army, Royse decided California was the place for him. He enrolled in the architecture program at University of California, Berkeley. Royse talks nonchalantly about how he and three classmates would invite visiting eminent architects to dinner at their apartment, not typical behavior for most college students, but architecture schools, he said, typically have closer student/faculty relationships.

Like some college graduates, Royse took a tour of Europe, except he did it on a traveling scholarship he won from Berkeley. When his money began to run out, Royse knocked on Steen Eiler Rasmussen's door in Copenhagen. Rasmussen, who had taught architectural history at Berkeley, was one of the eminent architects Royse and his cohorts had invited to dinner. Rasmussen, author of such books as "London, The Unique City" and "Towns and Buildings," hired Royse on the spot. Royse worked for him for two years, in what was as much a postgraduate training period as it was a job.

"Those two years were critical for me," said Royse. "Steen Eiler was like my tutor. He was first and foremost an educator. He loved to talk to anyone — students or not — about architecture and about towns."

At Rasmussen's drafting table Royse developed his strong interest in urban design, which brought him back to the states to Massachusetts Institute of Technology on a full-tuition scholarship to study the subject.

In spite of his urban design emphasis, Royse always has loved building design as well as urban planning.

"I enjoy the two extremes. I have always liked the mix between focusing on small architectural design problems that you have complete control of and doing larger scale projects that you can set directions for and not have as much architectural control."

"So many people try to polarize large-scale and small-scale architectural design, but it doesn't have to be like that," said Royse.

Training tomorrow's architects

Indeed, Royse argues that to be fully prepared for architecture, students must be exposed to the whole range of design problems. He takes pleasure in teaching both architectural design to first-semester graduate students and urban design issues in advanced graduate-level studios. Royse noted that many of the studio projects are taken from his experiences with the city.

In 1994, for example, Royse led a graduate design studio on the proposed Metrolink extension. The mayors of both University City and Clayton were involved, as were members of Citizens for Modern Transit. A second studio, completed last spring, focused on the multimodal transportation port that Royse himself worked on during his tenure with the city.

Eagleton, Royse's partner and former student, said Royse has a reputation among students for coming up with good solutions and working with ideas that are not his own. In a field where egos often get in the way, Royse encourages students to develop their ideas, rather than imposing his own ideas on their projects, said Eagleton.

These days, Royse's role as educator is further complicated by the changing role of architecture.

"Those of us in the profession are re-evaluating how architecture fits into the larger social picture," said Royse. "Architects are going to be working in a global context. Issues of things like computer technology and information systems are unavoidable. Sometimes these issues come into conflict with people who want to focus on design excellence. Design excellence is important, but it has to be fit into a larger picture and be conceived in a global context."

As architecture becomes more and more interdisciplinary or multidisciplinary, educators face a difficult choice, said Royse.

"It's hard enough in the short period students are here to train them in the skills architects need to really be good designers. And I think there's a reluctance to give up any of that. I have a real conflict myself, because I am really deeply interested in good design, but if you do only that then you are not training people for the profession they are about to go in to. So you have to make this balance and I think the hardest thing is finding where that balance point is."

— Debby Aronson

Calendar

Aug. 24–Sept. 2



Exhibitions

"The Keenest of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology." Printed treasures in ophthalmology and the visual sciences from four centuries. Through Dec. 22. Glaser Gallery, The Bernard Becker Medical Library, 660 S. Euclid Ave. Hours: 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-4239.



Lectures

Thursday, Aug. 24

4 p.m. Chemistry seminar. "Transport and Other Physio-chemical Properties of Polyaniline," Benjamin R. Mattes, research scientist, Los Alamos National Laboratory, Los Alamos, N.M. Room 311 McMillen

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.

Women's soccer welcomes 'spectacular' freshmen

After closing out the 1994 season with a 5-2-1 surge, the Washington University women's soccer is looking with high hopes toward the 1995 campaign.

Optimism is rampant after graduating just one player from last year's green-with-a-capital-G squad. However, the one graduate — the versatile Laura Miller — will be tough to replace. Miller, a first-team all-UAA (University Athletic Association) honoree, left as the program's all-time leader in goals, assists, points, shots and matches played.

Another all-association first-teamer, senior stopper Terri Basco (St. Louis), should step comfortably in the vacant leadership role. Basco, a former high school All-American who transferred to Washington University after starting two seasons at Division II power Quincy University (Quincy, Ill.), also earned a first-team all-region nod in '94.

Last year's stellar freshman class, which at times featured eight starters, is fronted by midfielder Vanessa Young (St. Louis). Young's eight assists placed her

Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

Friday, Aug. 25

9:15 a.m. Pediatric Grand Rounds. "Endocrine Tumors in Children," Michael A. Skinner, asst. prof., Division of Pediatric Surgery. Clopton Aud., 4950 Children's Place. 454-2706.

Monday, Aug. 28

Noon. Neurology and neurological surgery lecture. "Production of a Mouse Model for Zellweger Syndrome, a Neuronal Migration Disorder," Phyllis Lynn Faust, postdoctoral fellow, Laboratory of Developmental Neurobiology, The Rockefeller U., New York. Schwarz Aud., First Floor Maternity Bldg. 362-7149.

Wednesday, Aug. 30

11 a.m. Assembly Series lecture. "Evolution and Human Equality," Stephen Jay Gould, Alexander Agassiz Professor of Zoology, Harvard U., and author, "Bully for Brontosaurus: Reflections in Natural History." Graham Chapel. 935-5285.

Thursday, Aug. 31

4 p.m. Chemistry seminar. "Energy and Environments, Photoexcited Charge Separation and a Trial for Artificial Photosynthetic Reaction Center," Kazuhiro Maruyama, president, Kyoto Institute of Technology, Kyoto, Japan. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

Friday, Sept. 1

8 a.m. Pathology seminar. "Cellular Mechanisms of Tumor Cell Metastasis to Bone," Gregory R. Mundy, prof. and head, Division of Endocrinology and Metabolism, U. of Texas Health Science Center, San Antonio. The Brown Room, St. Louis Jewish Hospital. 454-8463.



Music

Saturday, Aug. 26

1-3 p.m. Music auditions. WU Symphony Orchestra and Wind Ensemble will hold winds, brass and percussion auditions with

music director Dan Presgrave in Tietjens Rehearsal Hall. Open to all qualified musicians in the St. Louis area. Call 935-7405 to schedule specific times.



Performances

Thursday, Aug. 24

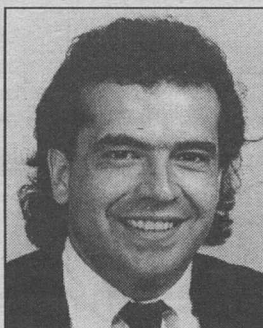
7-11 p.m. Performing arts auditions. The Performing Arts Dept. will hold auditions for the fall productions. Open to WU community only. Sign-up held at Room 314 Mallinckrodt Center. Auditions will be held in Edison Theatre and the Drama Studio, Mallinckrodt Center. 935-5858.

League-best men's soccer team still seeks national championship

Since the NCAA instituted a national championship tournament for Division III men's soccer in 1974, Washington University has ranked among the division's top teams in a number of categories, including overall winning percentage and postseason victories. In addition, the Bears have moved to the top of the heap in the soccer-rich University Athletic Association (UAA), posting a league-best 40-11-4 record and claiming five league titles.

But one thing still is missing among all its lofty records and proud accomplishments — a national championship.

The Bears have advanced to the national title game on three occasions — 1978,



Ty Keough

athletic team on the Hilltop Campus.

Are the Bears still on track for an eventual national title?

"We are attracting and recruiting players that are going to keep us competitive at the national level," said ninth-year Coach Ty Keough, who has led the Bears to six NCAA tournaments. "A national championship is our goal every year. We expect to contend for the conference title and go to the NCAA tournament in November. Anything less than that is a disappointment in the minds of our players and coaching staff."

Gould to discuss evolution — from page 1

for excellence in paleontological writing from the Paleontological Society in 1992.

After graduating in 1963 with a bachelor's degree in geology from Antioch College, Gould received a doctorate in 1967 from Columbia University.

Gould is a member of the American Academy of Arts and Sciences, the National Academy of Sciences and Sigma Xi. Since 1986 he has served on the board of editors of Science magazine and since 1992 as a member of the board of the British Museum's International Foundation.

He has received many honors and awards, among them the Columbia University Medal of Excellence (1982) and the Britannica Award and Gold Medal for dissemination of public knowledge



Miscellany

Friday, Sept. 1

Division of Comparative Medicine Conference registration deadline. The conference, from 8 a.m.-5 p.m. Sept. 12, is for investigators on issues related to the use of rodents in biomedical research. Topics include development of transgenic and knockout animal models, use of cryopreservation technology and potential impact of recently recognized viruses and bacteria on research studies using rodents. Co-sponsored by Harlan Sprague Dawley Inc. To register, call 362-3700 or fax 362-6480.

"To win a national title, however, you need great team chemistry, solid senior leadership, plenty of talent and depth, and maybe most importantly, a little luck. We haven't been able to get those four components all working together yet, but I believe we're heading in that direction. Our junior class is one of the best groups I've recruited. They will be the focus of our squad the next two seasons."

A total of 12 juniors are listed on the Bears' 1995 roster, including a newcomer from the junior college ranks, Sean Fitzgerald (St. Louis). Among the top junior returnees are first-team all-Midwest region forward Justin Reed (Kansas City, Mo.), second-team all-region and first-team all-UAA midfielder Scott Engroff (Mequon, Wis.), second-team all-UAA midfielder David Katz (Stony Brook, N.Y.) and honorable mention all-UAA defender Adam Pressman (Franklin, Tenn.).

Reed led the Bears in scoring with 11 goals and seven assists while Katz was second with six goals and nine assists. Pressman and Engroff filled in with 14 and 13 points, respectively, good enough for fourth and fifth place on the Bears' scoring charts.

The return of Engroff this season is in question, however. Earlier this summer, the Bears' bright 1995 outlook was dimmed a bit when the Bears' star midfielder was injured in a Jeep accident. The injury required knee surgery, and his status for 1995 remains cloudy.

Not to be overshadowed by the Bears' large third-year class are three key seniors — honorable mention all-UAA midfielder Matt Valentine (Arlington, Texas), goalkeeper Stu Bradley (Rockford, Ill.) and defender Dan McAlone (St. Louis).

Inauguration set

The inauguration of Mark S. Wrighton as the 14th chancellor of Washington University is set for Oct. 6. Beginning Aug. 31, the Record will run a series of articles detailing this historic event.

University retirees honored for years of service

For some individuals, thoughts of retirement may spur visions of relaxing in a hammock in the countryside. But for several recent Washington University staff members, retirement is a time to further pursue favorite projects or begin new ones.

Since retiring in January, Charles E. Pinkston cuts the grass at the Riverside Golf Course in Fenton, visits his farm in Bonne Terre, Mo., at least twice a week, and is planning a Florida trip in November with his golf league.

Leon E. Ashford, who retired in June, has been busy serving as vice president of the City of St. Louis' Mental Health Board of Trustees and helping high school youths better themselves through Omega Psi Phi's Operation Manhood program. Ashford, a member of the Omega fraternity, chairs its community and civic affairs committee.

Shirley L. Moore, who retired from the School of Medicine last summer, continues to work part time for the school in the Medical Transcription Department. In her spare time, she also sings with The Pitch Pipers and The Statesman Singers, both local groups.

Moore also has found time to pursue two new interests: golf and genealogy.

Pinkston, Ashford and Moore were just three of the approximately 40 individuals who were recognized during the Aug. 15 luncheon at the Whittemore House for retired staff. Chancellor Mark S. Wrighton, Ph.D., along with Gloria W. White, vice chancellor for human resources, recognized the Hilltop Campus retirees and presented each with a personalized commemorative walnut plaque.

On behalf of William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school, Leslie E. Kahl, M.D., recognized and presented plaques to those who retired from the School of Medicine. Kahl is associate dean for student affairs and associate professor of medicine.

"This is a very important event," said Wrighton, as he welcomed the group. The talk was his first to Washington University retirees. "We're honoring a group of people who've made this a great University. I really appreciate all of the good work you've done here. The quality of an institution is due to the great people who work at the institution. I'm grateful to come into an institution that is so strong."

Of the retirees attending the luncheon, Ashford, former director of the Student Educational Service, Pinkston, who was a lieutenant in the University Police Department, and Moore, who worked in the Division of Hematology, Barnard Cancer Center, and medical transcription during her tenure, received centerpieces for the longest amount of service. Ashford retired after 39 years, Pinkston after 37 and Moore after 42.

Pinkston, who came to the University when he was 18, described Washington University as a "wonderful" place to work. "I enjoyed working with the students. Every year I looked forward to meeting new students," he said.

"Every year I looked forward to meeting new students."

— Charles E. Pinkston

Besides Ashford and Pinkston, the Hilltop retirees and their years of service are: Charles D. Abraham, 15 years; David H. Benson, 12 years; Calvin C. Eason, 24 years; Jerry L. Ewing, 35 years; Esther G. Koenig, 13 years; Mary C. Martin, 24

years; LaVerne H. Mayer, 15 years; Yvonne D. Norman, 22 years; Harry J. Riedmeyer, 25 years; Ralph P. Ryder, 45 years; Phyllis L. Smith, 12 years; Herbert Weitman, 45 years; Wilma L.

Whitworth, 17 years; and Jamesetta (Tootie) D. Williams, 25 years.

In addition to Moore, the medical school retirees and their years of service are: Marion Bogdanovich, 17 years; Annie

L. Burch, 10 years; Shirley B. Carroll, 23 years; Lourenzy Cosey, 17 years; Dixie R. Gardin, 13 years; Joyce O. Gelardi, 26 years; Conrad O. Granda, 21 years; Ella Mae Gray, 20 years; Frances Grubbs, 26 years; Lela J. Head, 29 years; Alice Mae Hightower, 31 years; Shirley M. Hill, 19 years; Dorothy B. Hodges, 24 years; Phyllis A. Hoffmann, 21 years; Eugene H. Isgriggs, 13 years; Fay A. Jacot, 12 years; Harold S. Jacot, 10 years; Essie L. Jones, 25 years; Doris Mae McKeever, 22 years; Donna J. Morgan, 10 years; Eugene Mueth, 20 years; James Patterson Jr., 34 years; Mamie D. Penny, 33 years; James A. Robinson, 11 years; Jack E. Robison, 34 years; Annemarie Schmoeker, 27 years; Sophie Silverman, 22 years; John M. Smith, 18 years; Vera Mae Smith, 11 years; Bessie Mae Spigner, 20 years; Mary L. Tatum, 20 years; and Gwendolyn Tolston, 36 years.



From left, Leon E. Ashford, Chancellor Mark S. Wrighton, Ph.D., Shirley L. Moore and Charles E. Pinkston. Retirees Ashford, Moore and Pinkston were honored for the longest amount of service at an Aug. 15 luncheon.

New leadership appointed in arts and sciences departments, programs — from page 1

political science, art history, philosophy, and business.

Marcus, a faculty member here since 1985, received a doctoral degree in Japanese languages and literatures from the University of Michigan, Ann Arbor, in 1985. His research interests are in early modern Japanese literature, especially the literary community in Tokyo at the turn of the century. A current research focus is the literature of Shimazaki Toson (1872-1943).

Marcus teaches courses in modern Japanese literature, advanced Japanese language, as well as courses on Japanese civilization and Japanese film. He noted that the East Asian Studies Program kicks off its fall colloquium series in September with the first of six monthly lectures on "Women in East Asia."

Daniel B. Shea Jr., Ph.D., professor of English, is the new chair of the Department of English. This will be Shea's second time as English department chair, as he served in this capacity from 1978 to 1984. Shea succeeds Joseph Loewenstein, Ph.D., associate professor of English, who was department chair from 1992-95.

Shea, who has been a Washington University faculty member since 1962, received a bachelor's degree from the University of St. Thomas, St. Paul, Minn., in 1958 and earned a master's degree and doctorate from Stanford University in 1962 and 1966, respectively. All three degrees are in English. A specialist in early American literature, Shea has received numerous fellowships and teaching awards, including the University's Distinguished Faculty Award. Among other subjects, Shea has written a great deal about early American spiritual autobiography and has recently edited a narrative of Elizabeth Ashbridge, a Quaker preacher.

Shea is also an honorary professor of

drama in the Performing Arts Department and served as acting chair of the department in spring 1995. Shea has performed in many productions of Washington University and community theatres, and as an Equity actor, has appeared with The New Theatre, St. Louis Shakespeare Co. and ShatterMask.

Richard J. Walter, Ph.D., professor and chair of the Department of History, is acting chair of the European Studies Program for the fall 1995 semester. Walter fills in for Paul Michael Lützel, Ph.D., Rosa May Distinguished Professor in the Humanities, who will be on leave in Germany this semester.

Walter has been chair of the history department since 1993. Before joining the faculty here in 1965, he earned a bachelor of arts degree from Duke University in 1961 and a master of arts degree in history from Stanford University in 1962. He completed a doctoral degree in history in 1966 from Stanford University.

He teaches several courses on Latin American history, including such topics as human rights, urban development and political leadership, as well as U.S. policy in Latin America. His research interests focus primarily on the politics of Argentina.

Walter's recent book on "Politics and Urban Growth in Buenos Aires: 1910-1942" (Cambridge University Press) was the first study in any language of an important period in one of the world's most important cities. He is working on a similar study of Santiago de Chile.

Mark S. Weil, Ph.D., professor of art history and archaeology, is the new chair of the Department of Art History and Archaeology. Weil, who chaired the department from 1982-88, replaces Robert L. Thorp, Ph.D., associate professor of art history and archaeology. Thorp, who led

the department since 1988, will remain on the faculty.

Weil, a member of the faculty since 1968, earned a bachelor's degree from Washington University in 1961. He continued his art history studies at Columbia University, from which he earned a master's degree in 1964 and a doctoral degree in 1968.

His research concentration is 16th- and 17th-century sculpture and architecture. Publications include a book and numerous articles on the sculpture of Gian Lorenzo Bernini, and on the design of theatres, stages and gardens in the Italian Renaissance and baroque periods. He is working on an essay series dealing with visual representations of the marvelous in 16th-century Italian art.

James V. Wertsch, Ph.D., joins Washington University this fall as professor and chair of the Department of Education, succeeding Bryce B. Hudgins, Ph.D., professor. Wertsch comes to the University from Clark University in Worcester, Mass., where he was professor of psychology and adjunct professor of education. He also served as chair of the Department of Psychology at Clark from 1988-1992. In addition, he was a 1992-93 visiting professor in the psychology department at the University of Seville in Spain and was the Belle van Zuylen Research Professor of the Arts and Letters at the Rijksuniversiteit Utrecht in Holland in 1987-88.

Among Wertsch's major research interests are language and thought, particularly the relationship between history and national identity. Wertsch, who has received several fellowships to study in Russia, co-authored a 1994 article titled "Official and Unofficial Histories: The Case of Estonia" that was published in the Journal of Narrative and Life History.

Wertsch is an honorary member of the Russian Academy of Education and a fellow of the American Psychological Association. He received a bachelor's degree in psychology from the University of Illinois at Urbana-Champaign in 1969, a master's degree in teaching from Northwestern University in 1971 and a doctorate in educational psychology from the University of Chicago in 1975.

Edward N. Wilson, Ph.D., is the new chair of the Department of Mathematics, succeeding Gary Jensen, Ph.D. Jensen, who chaired the mathematics department beginning in 1990, remains on the faculty as professor of mathematics.

Wilson began his teaching career at Washington University in 1973 as an assistant professor of mathematics. In 1977, he rose to associate professor and became full professor of mathematics in 1987. From 1983 to 1993, he was dean of the Graduate School of Arts and Sciences. From 1986 to 1988, he was dean of University College.

Wilson, a specialist in harmonic analysis and differential geometry, received a bachelor's degree with high honors in mathematics and distinction in all subjects from Cornell University in 1963. He earned a master's degree in mathematics in 1965 from Stanford University and a doctorate in mathematics in 1971 from Washington University.

Wilson has written numerous professional articles and has served as a member of the Graduate Record Examination (GRE) Board from 1986 to 1990 and also during that time as a member of the GRE Research Committee. From 1986-89, he was a member of the Executive Committee of the Association of Graduate Schools, serving in a variety of capacities for the association.

Students, officials pleased with Campus Bookstore redesign

Students purchasing books and supplies for the upcoming semester give the redesigned Campus Bookstore in Mallinckrodt Center a "thumbs-up."

In terms of physical makeup, the Campus Bookstore now rivals major bookstores in the St. Louis area, said Bob Kallemeier, the project manager in the Department of Facilities Planning and Management who oversaw the renovation. The Campus Bookstore boasts a new entranceway featuring floor-to-ceiling glass windows and a marble floor on the main level, hardwood floors mixed with carpeting throughout the store, colorful furnishings and wider aisles. All coursebooks are sold on the store's lower level, with items such as artwork supplies, food, magazines and general books sold on the main floor.

"I really like it," said Myke Witbraad, a newly arrived undergraduate exchange

food court, which includes vendors of deli sandwiches (Subway), chicken (Chick-Fil-A) and Marriott-run Asian, Mexican and pizza specialty food areas. The new Hilltop Cafe (the former deli), located on Mallinckrodt's main level, now features a bakery, gourmet coffee shop and Freshens, a vendor of frozen yogurt and hard-pack ice cream. A story on the cafe and food court will run in the Record following the official grand opening.

The official grand opening of the Mallinckrodt Center Food Court will be held at 11 a.m. on Tuesday, Aug. 29. Chancellor Mark S. Wrighton, Ph.D. will serve as officiator during the ceremony. Following the event, the University community will vie for prizes, which will include a \$250 gift certificate from the Campus Bookstore and a free night's stay with free parking and

breakfast, at the Pavilion Marriott in downtown St. Louis.

Officials began redesigning the new facilities a year ago. Construction involving approximately 15 outside contractors began last spring and ended nearly three months later. Besides the redesign, two new restrooms, one each for men and women, were installed in the dining area outside the store's coursebook section. The new restrooms, along with the existing ones near Schoenberg Gallery on Mallinckrodt's lower level, have been updated to comply with the Americans With Disabilities Act. "Mallinckrodt Center now has twice as many bathroom facilities," noted Kallemeier. Additionally, workers painted and refurbished the Mallinckrodt elevator. Because walls around the elevator were rearranged, the elevator now is more accessible to the

general public. The elevator is housed near the food court and dining room on the lower level, across from the upstairs food court on the main level and near Boatmen's Bank on the upper level.

"We did more than redesign the bookstore," said Kallemeier. "We did a lot of refurbishing. We looked around Mallinckrodt Center and touched up what we could to be effective," he added, noting that workers installed tile and new carpeting throughout Schoenberg Gallery and retiled the women's restroom near the gallery.

"The entire project was very complex, with thousands of little details," said Kallemeier. "But we completed it on time and under budget. There was much coordination and cooperation by all involved. The key was teamwork and advanced planning. From our standpoint, it was a real success."

— Carolyn Sanford

The official grand opening of the Mallinckrodt Center Food Court, featuring prize drawings, will be held at 11 a.m. Tuesday, Aug. 29.

student in business from Utrecht, Netherlands. "I just thought they were selling books, not other things. But it's got everything. I can get drinks, something to eat. I can buy Washington University souvenirs at the back of the store." Witbraad, who is studying law, management and public administration at the University of Utrecht, points out that she also can buy posters, which she was purchasing Aug. 14 for her residence hall room.

"It's a lot easier to get to the textbooks," noted Darryl Wilson, a senior human resources major. Wilson said that buying books is a faster process because the area is more spacious, books are arranged in a logical manner, and the isolated area is less consumed by traffic. "The redesign of the bookstore is much more pleasant. It's brighter, has more of a feel to it. The money was well spent."

In addition, the lower level of Mallinckrodt now features a new dining area that seats about 600 people, and a



Yukino Washizu, a junior earth and planetary sciences major, browses in the renovated Campus Bookstore.

Stricter law enforcement not enough to curb teen violence, researcher contends — from page 1

teenager will engage in violent behavior.

"Youths who are usually thought of as violent victimizers of others often have been the most victimized themselves," Stiffman said. "They see no hope for the future, feel suicidal, and do not know how to escape from the violence except by being violent themselves or numbing themselves with drugs or alcohol. The victimizers are also the victims."

More than 25 percent of those surveyed reported that they themselves had been attacked or beaten and 20 percent said that they had been hurt or threatened with physical violence in their own homes. In addition to demonstrating a strong relationship between exposure to high levels of violence and a teen's likelihood of engaging in violence, the study also linked exposure to violence to other risky behaviors, such as drug abuse and unsafe sex.

Almost one-third of the youths had engaged in at least one sexual risk behavior in the last six months, and nearly one-quarter reported multiple sexual partners in the same period. Two-thirds had experienced sexual intercourse, Stiffman said.

Stiffman's findings also shatter some popular misconceptions about the source of inner-city violence. The study indicates, for instance, that black males are no more likely to be violent than white males, although males as a group are twice as likely as females to be violent.

The study is one component of a research project designed to assess whether teenagers' needs for mental health services are being met by existing agencies and programs.

Few mental health resources

"We're definitely finding that existing systems are not identifying the kids' needs," Stiffman said. "Because most

service providers don't adequately identify the mental health needs of teens, they are not providing these services. Those providers who do know about the mental health problems of teen clients tell us that there are few resources to provide services. As a result, they don't bother to look for problems."

Stiffman and colleagues identified a wide range of serious mental health problems in the teens they surveyed, including drug or alcohol abuse, conduct disorder, post-traumatic stress, depression and suicidal tendencies.

"Less than half of the teens we identified as having mental health problems had received any services for these problems," Stiffman said.

The study generated strong interest among Stiffman's peers during presentations she made in spring 1995 at meetings of the Council on Social Work Education in San Jose, Calif., and at the International Association for Social Work in Washington, D.C. Stiffman's colleagues acknowledge that teen violence has become a serious problem across the nation, but many expressed concern about the recent rash of legislation designed to "get tough" on juvenile crime.

While many local and state politicians are pushing for more stringent penalties for juvenile offenders, Stiffman contends that stricter law enforcement measures alone are not enough to reverse what she

sees as a vicious cycle of teen violence.

"Instead of focusing solely on punishing the youths who are primarily reacting to the violence that they experienced around them, attempts must be made to reduce that environmental violence,"

Stiffman said. "Our study demonstrates the need for comprehensive interventions to reduce violence in the home, in the community, and in the school."

Stiffman's study of teen violence is part of a larger research effort at the school's Center for Mental Health Research, which was established in 1993 with the help of a \$3.7 million grant

from the National Institute of Mental Health.

The center's research focuses on the access, integration and effectiveness of mental health services for high-risk populations, including children, adolescents, poor and minority individuals, and those in the community with severe and persistent mental disorders.

Help needed at the 'gateways'

"Social workers as a group provide more mental health services than any other profession," said Kenneth G. Lutterman, associate director of research training at the NIMH Division of Applied and Services Research. "Most people with mental health problems first appear in settings other than the traditional mental health services — in the school, welfare,

and justice systems," said Lutterman.

"This center is helping provide the research that is needed to improve how social workers recognize, diagnose and treat people with mental health problems."

Stiffman's study demonstrates that youths who enter the "gateways" to mental health service provision through contact with school counselors, child welfare workers, juvenile court personnel or primary healthcare providers are likely to have many problems associated with exposure to violence. She suggests that teens entering these gateways be assessed routinely for exposure to violence.

"Helping professionals need to be aware of that violence and recognize its mitigating influence on the youths' well-being and on any intervention that fails to take it into consideration," Stiffman said. "We cannot expect youths who experience violence, death and fear every day of their lives to be able to make plans for their future and to cope with that trauma without help."

— Gerry Everding

Record makes debut on World Wide Web

The Record is now available electronically through the Internet.

To access the Record, point a World Wide Web browser (Netscape, Mosaic, etc.) to <http://wupa.wustl.edu/record/record.html>. It is also accessible through the University's Home Page (<http://www.wustl.edu>).

For more information, call Galen Harrison at 935-6594.

"We cannot expect youths who experience violence, death and fear every day of their lives to be able to make plans for their future and to cope with that trauma without help."

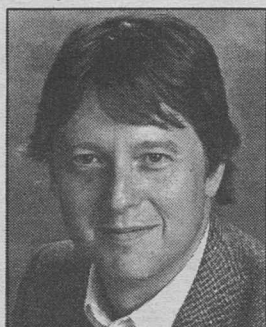
— Arlene Stiffman

News Analysis

News Analysis contains excerpts from the For Expert Comment service. The service, which provides timely faculty comments to media across the country, is distributed by the Office of University Communications.

Survey debunks notion that welfare spurs dependency cycle

Mark R. Rank, Ph.D., associate professor of social work, is an expert on



Mark R. Rank

poverty, welfare and social policy. Rank recently analyzed a national survey of 13,000 American households to determine the extent of intergenerational welfare use. His findings, to be published this month in the *Journal of Marriage and Family*, disprove the notion that welfare traps many of its recipients into a chronic cycle of dependency.

The study, supported by a grant from the National Institute of Child Health and Human Development, found:

- only 25 percent of recent welfare recipients said their parents had used welfare.
- only 10 percent of current welfare recipients grew up in households that frequently used welfare.
- only 5 percent of all welfare recipients were chronic welfare users (reporting welfare use in four of the last six years) who also grew up in households where parents were frequent users of welfare programs.

Thus, while many politicians claim that welfare reform is essential to break the "vicious cycle of dependency," Rank's study demonstrates that the vast majority of welfare recipients are first-generation users.

"So much of the welfare debate is based on this notion of chronic welfare dependency: freeloaders whose families abuse welfare from one generation to the next. Yet our analysis shows that this stereotype fits only a very small portion of the population," Rank said.

Nevertheless, Rank did find that children raised in families using public assistance are indeed more likely to use welfare as adults when compared with those growing up in non-welfare households. While previous research has suggested a correlation between childhood and adult welfare use, Rank's study breaks new ground in the welfare dependency debate by using complex statistical analysis to demonstrate why this link exists.

"Interestingly, this connection has little to do with welfare per se," Rank said. "Rather it has to do with poverty. Children from families who have relied on welfare usually come from families with low incomes. If parents have limited finances, their children obviously are going to have less opportunities, less resources. Our analysis shows that this translates into less education, less job skills and therefore, an increased chance of needing welfare assistance as adults. The bottom line is that rather than being a learned lifestyle, welfare dependency is simply a by-product of poverty."

The only important caveat is that a family history of welfare use does appear to increase the likelihood that a daughter will go on to become a female head of household — a category that tends to be heavy users of the welfare system.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

John W. Rohrbaugh, Ph.D., associate professor of psychiatry, received a \$769,376 four-year grant from the National Institute on Alcohol Abuse and Alcoholism for a project on "Dynamic Posturography and Familial History of Alcoholism." ...

Peter S. Rotwein, M.D., professor of medicine and of biochemistry and molecular biophysics and assistant professor of genetics, received an \$815,866 four-year grant from the National Institute of Diabetes and Digestive and Kidney Diseases for a project on "Regulation of Insulin-growth Factor I Expression." ...

Barry E. Spielman, Ph.D., professor and chair of the Department of Electrical Engineering, received the 1995 Education Award from the Institute of Electrical and Electronics Engineers, St. Louis Section, in recognition of his leadership in electrical engineering education.

Speaking of

At the Academy of Rehabilitative Audiology meeting in Orlando, Fla., **Lisa S. Davidson**, lecturer in audiology in the

Department of Speech and Hearing and an educational audiologist at the Central Institute for the Deaf (CID) School, and **Ann E. Geers**, Ph.D., associate professor of psychology in the department and director of clinical services at CID, delivered a presentation on "Auditory Training."

On assignment

Mary A. Haberberger, billing assistant 1, Division of Comparative Medicine, and a student in the Master of Liberal Arts Program, was appointed a trustee to the St. Louis Mental Health Board. ...

Stephen H. Legomsky, J.D., D.Phil., Charles F. Nagel Professor of International and Comparative Law, was part of an American Academy of Arts and Sciences team that met in Ladenburg, Germany, to prepare immigration law reform proposals for the U.S. and German governments. In addition, he spoke on universal migration issues at the University of Innsbruck in Austria. ...

Karen L. Tokarz, LL.M., professor of law and director of clinical education, was a convener for the second national/first international Clinical Directors Conference in St. Louis. More than 70 clinical directors attended, including those from the United States, South Africa, Chile and Russia. Tokarz presented the opening address and

moderated a panel on "New Directions in Clinical Curriculum."

To press

The second editions of two publications written by **Kathleen F. Brickey**, J.D., James Carr Professor of Criminal Jurisprudence, were published by Little, Brown & Co. of Boston. The editions are titled "Corporate and White Collar Crime — Cases and Materials" (1990) and "Corporate and White Collar Crime — Selected Cases and Statutes" (1992). ...

Keith A. Hruska, M.D., Ira M. Lang Professor of Medicine, wrote a paper on "Human Osteoblast-like Cells Respond to Mechanical Strain With Increased Bone Matrix Protein Production Independent of Hormonal Regulation" that was published in the *Endocrinology* journal. He wrote the paper with Laura V. Harter, a research technician at Jewish Hospital.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Angela Miller receives major Smithsonian award

Angela Miller, Ph.D., associate professor of art history and archaeology, is the 1995 winner of a prestigious award from the Smithsonian Institution's National Museum of American Art in Washington, D.C.

Miller received the seventh annual Charles C. Eldredge Prize for Distinguished Scholarship in American Art for her 1993 book, "The Empire of the Eye: Landscape Representation and American Cultural Politics, 1825-1875." Cornell University



Angela Miller

Press published the book. Miller is a visiting Mellon Professor at Colgate University in Hamilton, N.Y., this fall.

The prize, which includes a \$2,000

cash award, recognizes a recent publication on the history of American art for its originality, excellence of research and writing, and significance for professional and public audiences.

The Eldredge Prize jury was composed of Susan Larsen, professor of art history and fine arts at the University of Southern California in Los Angeles; independent scholar Sidra Stich, who served as the first Distinguished Scholar at the National Museum of American Art during the 1994-95 academic year; and Alan Trachtenberg, Neil Gray Jr. Professor of English and American Studies at Yale University.

Student team finishes eighth in math competition

A Washington University team recently ranked eighth among universities and colleges in the United States and Canada during the prestigious annual William Lowell Putnam Mathematical Competition. The competition featured 2,314 contestants from 409 universities and colleges.

Contestants take a six-hour test in mathematics at their home institutions. A team average is computed based on scores from three designated contestants. Of the 14 Washington University students who participated, seven finished in the top 200.

"I'm delighted," said Carl M. Bender, Ph.D., professor of physics, who, along with Richard Rochberg, Ph.D., professor of mathematics, coached the Washington

University team. Bender has coached the team for 18 consecutive years. "The University should be very proud of our Putnam team, the level of mathematics taught here, and the caliber of student who comes here."

In 1994 the American Studies Association awarded Miller its John Hope Franklin prize for the book.

Sophomore Daniel K. Schepler came in eighth and received a \$500 award. Junior Jade P. Vinson came in 24th and won \$100. Lawrence P. Roberts, a junior, ranked 53rd; Erik N. Vee, a senior, finished 79th; Ian F. Pulizzotto, a 1995 alumnus, was 102nd; Philip Wu, a senior, was 150th; and Edward D. Hanson, a junior, was 193rd.

The three University team members were Schepler, Vinson and Ben B. Gum, a 1995 alumnus.

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

"At the Fringes of Science" is the title of a new book by **Michael W. Friedlander**, Ph.D., professor of physics. Scientific discoveries are constantly in the news. But sometimes it turns out that what was trumpeted as scientific truth is later discredited. Controversy may long swirl about some dramatic claim. What is a non-scientist to believe? In the book, Friedlander offers a careful look at the shadowlands of science. He reviews conventional scientific method and shows how scientists examine the hard cases to determine what is science and what is pseudoscience. Emphasizing that there is no clear line of demarcation between science and nonsense, Friedlander leads the reader through case after case, covering favorites of "tabloid science" such as astrology and UFOs, scientific controversies such as cold fusion, and those maverick ideas that were at first rejected by science only to be embraced later. A Japanese edition of the book will be published in 1997. (Westview Press, Boulder, Colo.; San Francisco; and Oxford, England)



Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Evening Library Supervisor 960003. John M. Olin School of Business. Requirements: two years of college, bachelor's degree preferred; typing 30 wpm with accuracy; responsible, dependable; ability to work with minimal supervision; ability to work with and maintain a variety of equipment and services (PC, CD, microforms, copy machines); excellent supervisory and customer service skills; flexibility regarding work assignments; ability to communicate with and assist a wide variety of individuals (students, faculty, business people). Duties: total responsibility for the library during evening hours; provide basic reference assistance in addition to circulation/reserve functions; must acquire extensive knowledge of the collection and its resources. Schedule: 6 p.m.-12 a.m. Sundays; 3:30 p.m.-12 a.m. Mondays-Thursdays. Work is scheduled during fall and spring semesters except for student breaks.

Public Services/Stack Maintenance/Updating 960005. Freund Law Library. Requirements: one year of college; typing 30 wpm with accuracy; library technical services experience.

Business Manager 960006. School of Law. Requirements: three to five years experience in management; master's degree or the equivalent combination of education and experience strongly preferred; experience in preparation, analysis and management of complex budgets; extensive experience in accounting management and knowledge of accounting policies and procedures; human resource management experience, including the demonstrated ability to supervise, motivate and evaluate staff, and knowledge of human resources policies and procedures; demonstrated verbal and written communication skills. Résumé required.

Secretary 960008. Department of Chemistry. Requirements: experience in a scientific environment, preferably in a university department; extensive experience with various software related to manuscript preparation and spreadsheet management; experience with DOS and Macintosh machines preferred; experience in editing and publication lay-out helpful; bachelor's degree preferred; ability to interact with faculty, staff and students. Résumé required.

Sales Associate 960010. Campus Stores. Requirements: high school graduate, some college preferred; typing 20 wpm with accuracy; good customer relations; ability to stand, lift and display merchandise; organizational skills; cashiering experience; willingness to work evenings and weekends. Résumé required.

Systems Administrator 960011. Consortium for Graduate Study. Requirements: two or more years experience in systems administration; bachelor's degree in computer science or related field or equivalent experience; proven skills in project management applications development and systems planning; knowledge of spreadsheets, word processing, database management and desktop publishing; experi-

ence with WordPerfect, Alpha4, LOTUS 1-2-3 and PageMaker applications preferred; hands-on experience with DOS and Macintosh operating systems and LANs; excellent verbal and written communication and customer service skills; quality assurance background preferred; experience with Novell network, Microsoft access and Microsoft Windows environment. Résumé required.

LAN Engineer 960017. Computing and Communications. Requirements: bachelor's degree; two years experience working on Apple Macintosh equipment; experience in networking (Appleshare, Appletalk, Ethernet, TCP/IP, etc.); experience as system administrator; experience with Apple operating system software, MS-DOS and Microsoft Windows. Résumé required.

Support Services Assistant 960018. School of Law. Requirements: high school graduate, some college preferred; basic computer skills; attentiveness to detail; ability to handle money; excellent organizational and interpersonal skills; ability to work with minimal supervision; high energy; take-charge attitude; ability to lift boxes weighing up to 40 lbs. Résumé required.

Departmental Secretary 960019. Alumni and Development Programs. Requirements: high school graduate, bachelor's degree preferred; strong command of the English language; ability to deal with multiple priorities with minimal supervision; willingness to work overtime, including nights, weekends, etc.; good personality and grooming. Résumé required.

Financial Analyst 960021. Financial Planning. Requirements: bachelor's degree, master's degree preferred. Duties: budget forecasting and analysis, financial analysis; prepare materials for finance and budget CMTE and Board of Trustees; ad hoc analysis as requested. Résumé required.

Reference Assistant 960023. Olin Library. Requirements: some college, bachelor's degree preferred; library public service experience with courses in librarianship preferred; ability to respond to the public in a helpful and courteous manner; ability to work independently with minimal supervision; ability to organize work and to handle detailed work with accuracy; typing 50 wpm with accuracy; ability to work under pressure; some experience with microcomputers, especially word processing and desktop publishing; ability to adjust to a fluctuating academic year schedule, which includes evening and weekend hours. Résumé required.

Secretary/Receptionist 960026. Computer and Communications Research Center. Requirements: some college preferred; ability to work with graduate and undergraduate students as well as other departmental personnel. Résumé required.

Programmer Analyst III 960027. Computing and Communications. Requirements: bachelor's degree; good language and people skills; ability to work with minimal supervision; ability to learn quickly and adapt to new circumstances; experience with management of desktop computers; knowledge of desktop database technology in a client/server environment highly preferred; familiarity with DOS, Macintosh systems; knowledge of Novell, Appletalk, Windows and TCP/IP networking highly preferred. Résumé required.

Accountant 960030. Accounting Services. Requirements: bachelor's degree; one to two years accounting experience; excellent interpersonal and communication skills; related accounting

experience, including computer processing of accounting data; excellent personal computer skills. Résumé required.

Receptionist/Accounting Assistant 960031. School of Law. Requirements: high school graduate; excellent telephone, public relations and organizational skills; experience with IBM-compatible computers and WordPerfect software preferred; ability to meet the requirements to serve as a notary public; three semester hours of college accounting preferred; typing 40 wpm. Résumé required.

Career Counselor 960032. Career Center. Requirements: undergraduate degree in a liberal arts discipline; graduate degree in counseling; knowledge of career counseling and placement theory and practice; experience in, or exposure to, an arts and sciences career center; knowledge of career opportunities for liberal arts graduates; self-starter and team player; flexibility; creativity; high tolerance for ambiguity; a sense of humor; a commitment to continued development as a career planning and placement professional. Résumé required.

Departmental Secretary 960034. Alumni and Development Programs. Requirements: high school graduate, certificate or associate's degree preferred; strong background in Microsoft Word; excellent verbal and written skills; pleasant, professional manner with co-workers, volunteers, vendors; willingness to work extra hours if necessary; typing 50 wpm. Résumé required.

Departmental Secretary 960035. Alumni and Development Programs. Requirements: high school graduate, certificate or associate's degree preferred; strong background in personal computers; experience with Microsoft Word preferred; pleasant, professional manner with co-workers, volunteers, vendors; ability to handle multiple tasks in an organized, accurate and timely manner; excellent verbal and written skills; willingness to work extra hours if necessary; typing 40 wpm. Résumé required.

Computer Specialist II 960040. Department of Biology. Requirements: certificate or associate's degree, bachelor's degree preferred; strong training and interpersonal skills; ability and willingness to do repairs and maintenance; ability to support diverse end-user group in academic environment and on hybrid platform; demonstrated ability to develop useful documentation and training seminars in word processing, e-mail, Internet offerings, etc., and to function effectively in unstructured, harried environment; ability to work independently; good judgment. Résumé required.

Departmental Secretary 960041. Alumni and Development Programs. Requirements: high school graduate; three years general office experience; excellent, accurate typing; word processing experience; ability to deal with multiple priorities; specialized secretarial and business training; ability to work well with people; maturity; pleasant demeanor. Résumé required.

Phonathon Coordinator 960043. Alumni and Development Programs. Requirements: bachelor's degree; strong verbal and written skills; pleasant, professional manner with co-workers, volunteers and outside vendors; confidence in decision-making skills; ability to supervise students in an effective manner; strong organizational skills; ability to tabulate and report gift data; willingness to work flexible hours; en-

ergy and enthusiasm. Résumé required.

Administrative Assistant 960046. Board of Trustees. Requirements: high school graduate with some college; excellent organizational and verbal skills; efficiency in word processing and data processing; computer skilled; ability to use computer to increase office efficiency; ability to coordinate numerous details to prepare for an event; willingness to work outside of office hours setting up meetings, events; skill in writing and proofing minutes; accuracy, even in routine things; willingness to assist on a variety of tasks; pleasant demeanor with fellow workers and external constituencies; five years secretarial experience. Résumé required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a résumé to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo., 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Preventive Maintenance Mechanic 950564-R. Building Services. Requirements: high school graduate or equivalent; experience with institutional maintenance and heating, ventilating and air conditioning.

Facilities Maintenance and Service Coordinator 950565-R. Plant Maintenance. Requirements: high school graduate or equivalent; two years related experience in skill trade functions with demonstrated ability to perform varied maintenance tasks; heating, ventilation and air conditioning experience.

Medical Research Technician 950740-R. Ophthalmology. Re-

quirements: bachelor's degree in a life science with training or experience in biochemical and immunology techniques. Duties include working with rodents and rabbits.

Energy Management Tech 950830-R. Plant Maintenance. Requirements: high school graduate or equivalent with three years related experience; institutional maintenance background preferred; experience with personal computers.

Programmer Analyst I 950870-R. Washington University Shared Billing Collection Services. Requirements: bachelor's degree with two years application support, including programming experience; knowledge of billing system, preferably M, C, RDB or SYBASE application.

Administrative Assistant 950904-R. Psychiatry. Requirements: bachelor's degree in accounting or related field or five years experience in a university setting; experience with LOTUS, WordPerfect, FOCUS, FIS and grant software preferred.

Manager-Programming and Development 950995-R. Finance Office. Requirements: bachelor's degree in MIS, business management or related field with three years experience as a project manager developing financial budgets and Human Resource Information Systems; five years experience with analysis and design of small and large applications using a structural methodology and two years programming experience in an IBM environment using a 4GC, preferably FOCUS.

Sonographer 951000-R. Obstetrics and Gynecology. Requirements: registered or registry eligible (ARDMS); some experience in ultrasound preferred; working knowledge of ultrasound procedures and equipment; interpersonal and communication skills.

Data Assistant 951029-R. Psychiatry. Requirements: high school diploma, some college preferred; experience in DOS, WordPerfect and data management; research experience preferred.

Professional Rater III 951052-R. Psychiatry. Requirements: master's degree; experience in epidemiological research; expertise in research environment; ad-

ministrative and communication skills.

Environmental Tech I 951088-R. Environmental Safety. Requirements: high school graduate or equivalent, some college preferred. Responsibilities include handling chemicals and infectious waste; familiarity with scientific/math calculations and background in chemistry or biology preferred.

Medical Research Technician 960048-R. Biochemistry and Molecular Biophysics. Requirements: college degree with background in biology or chemistry; experience in protein purification. Responsibilities include learning instrumentation and molecular biology techniques.

EEG Technician I 960083-R. Psychiatry. Requirements: high school graduate or equivalent, some college and/or training in EEG technology preferred; experience with EEG techniques; knowledge of computers and phlebotomy skills. Position is part time.

Medical Assistant 960097-R. Ophthalmology. Schedule: part time, 9 a.m.-3 p.m. Mondays, Wednesdays, Thursdays and Fridays. Requirements: high school graduate or equivalent with training and certification as a medical assistant; clinical experience and familiarity with personal computers preferred.

Security Officer 960113-R. Security. Requirements: high school graduate or equivalent, associate's degree preferred; two years experience as a security officer in a large institution or military police experience.

Supervisor, Insurance Billing and Collection 960121-R. Washington University Shared Billing Collection Services. Requirements: high school graduate or equivalent with five years related experience, preferably in a medical insurance setting with supervisory duties.

Director of Quality Planning 960125-R. Custodial Services. Requirements: high school graduate or equivalent, associate's degree in business, management or related field preferred; 10 years experience with housekeeping, including five years experience at a supervisory level in a university, hospital or large corporation preferred.

Campus Watch

The following criminal incidents were reported to the University Police Department Aug. 11-20. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

Aug. 11

A student who had reported a stolen bicycle on June 24 reported that a bicycle similar to the one stolen was seen being used in the South 40. Upon further investigation, University Police contacted a student who had possession of the bike. That student said the bike was purchased as used. However, the bike was returned to the original owner after a receipt with the serial number was produced. The matter is being referred to the Judicial Administrator.

Aug. 14

9:07 a.m. — A lab assistant reported the theft of \$20 from a wallet that was left unattended on a desk in McMillen Lab.

1:12 p.m. — A faculty member reported the theft of a laptop computer, valued at \$1,300, from a desk in Rebstock Hall.

Aug. 16

6 p.m. — A student reported the theft of two hubcaps, valued at \$50, from a vehicle that was parked on the drive leading to Helen Ette Park House.

Aug. 17

12:09 p.m. — A staff member reported that a 5-foot-by-10-foot maroon and green Wash-

ington University banner, valued at \$500, was stolen from the Alumni Room in the Athletic Complex.

Aug. 19

1:15 p.m. — A student reported that a male subject exposed himself to her on the third floor of Olin Library. The subject fled through an adjacent fire exit, and a search of the area was unsuccessful.

Aug. 20

9:23 p.m. — A student reported that a wallet containing identification and credit cards was stolen from a desk in an unlocked room in Eliot Hall. Total value is estimated at \$36.

9:48 p.m. — A student reported that three students apparently took two insulated buckets from a booth at "St. Louis Live" in Brookings Quadrangle. An area coordinator with Residential Life was contacted and was able to recover the buckets from a residence hall room. The incident will be turned over to the Judicial Administrator.

9:48 p.m. — A student reported that the front Arkansas license plate was stolen from a vehicle in a South 40 parking lot. Estimated value is \$12.